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THAT WHICH IS CLAIMED IS:

1. A method of treating lymphoma in a subject in need thereof, comprising:

administering to a subject afflicted with lymphoma an antibody that binds to tenascin in a treatment effective amount.

- 2. A method according to claim 1, wherein said antibody is a monoclonal antibody.
- 10 3. A method according to claim 1, wherein said subject is a human subject.
 - 4. A method according to claim 1, wherein said antibody is selected from the group consisting of monoclonal antibody 81C6 and antibodies that bind to the epitope bound by monoclonal antibody 81C6.
 - 5. A method according to claim 1, wherein said lymphoma is Hodgkin's lymphoma.
- 20 6. A method according to claim 1, wherein said lymphoma is Non-Hodgkin's lymphoma.
 - 7. A method according to claim 1, wherein said antibody is coupled to a radioisotope.
 - 8. A method according to claim 7 wherein said radioisotope is selected from the group consisting of ¹³¹I, ⁹⁰Y, ²¹¹At, ²¹²Bi, ⁶⁷Cu, ¹⁸⁶Re, ¹⁸⁸Re, and ²¹²Pb.
- 30 9. A method according to claim 7, wherein said radioisotope is ¹³¹I.
 - 10. A method according to claim 7, wherein said antibody coupled to a radioisotope is administered in an amount of from 5,000 rads to 100,000 rads.

- 11. A method according to claim 1, wherein said administering step is a parenteral injection step.
- 5 12. A method of treating Non-Hodgkin's lymphoma in a human subject in need thereof, comprising:

parenterally administering to a human subject afflicted with lymphoma a monoclonal antibody that binds to tenascin in a treatment effective amount;

wherein said antibody is selected from the group consisting of monoclonal antibody 81C6 and antibodies that bind to the epitope bound by monoclonal antibody 81C6; and

wherein said antibody is coupled to a radioisotope.

- 13. A method according to claim 12, wherein said Non-Hodgkin's Lymphoma is unresponsive to chemotherapy treatment selected from the group consisting of rituximab, cyclophosphamide, doxorubicin, vincristine and prednisone treatment.
- 14. A method according to claim 12, wherein said Non-Hodgkin's20 Lymphoma is unresponsive to rituximab treatment.
 - 15. A method according to claim 12, wherein said radioisotope is selected from the group consisting of ¹³¹I, ⁹⁰Y, ²¹¹At, ²¹²Bi, ⁶⁷Cu, ¹⁸⁶Re, ¹⁸⁸Re, and ²¹²Pb.

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- 16. A method according to claim 12, wherein said radioisotope is ¹³¹I.
- 17. A method according to claim 12, wherein said antibody coupled to a radioisotope is administered in an amount of from 5,000 rads to 100,000 rads.

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18. A method according to claim 12, wherein said Non-Hodgkin's lymphoma is a low grade lymphoma.

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- 19. A method according to claim 12, wherein said Non-Hodgkin's lymphoma is an intermediate grade lymphoma.
- 20. A method according to claim 12, wherein said Non-Hodgkin's lymphoma is a high grade lymphoma.
 - 21. A method according to claim 12, wherein said parenteral administration step is carried out by intravenous injection.